AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1.   (currently amended): A telecommunication router ~~(TLK, RTS)~~ connected to a termination link ~~(TL)~~ and comprising a processor ~~(PROC)~~ adapted to handle packets of data received from said link, the telecommunication router comprising:

~~characterized in that said telecommunication router further comprises~~ a plurality of queues ~~(P0-P3)~~ adapted to store packets of data ~~prior to be~~ before said packets of data are transferred to said processor ~~(PROC)~~, and

a packet classifier ~~(CL)~~ adapted to receive said packets of data from said termination link, to classify ~~the~~ said received packets of data according to predetermined types, and to forward each of said classified packets of data towards one queue ~~out~~ of said plurality of queues, said one queue being selected according to the type of ~~the forwarded packet~~ each of said classified packets of data;

~~in that~~ wherein each of said predetermined types is associated to a predetermined priority; ~~and~~

~~in that~~ said processor is adapted to retrieve packets of data from the queues of said plurality according to predetermined priority rules; and

each queue of said plurality of queues is controlled by a queue manager adapted to discard packets coming from said packet classifier when a predetermined threshold filling level of the queue is reached.

2.   (currently amended): The telecommunication router according to claim 1,
~~characterized in~~ wherein said processor ~~(PROC)~~ is adapted to retrieve packets of data from a
queue associated to a ~~relative high~~ relatively higher predetermined priority prior to ~~retrieve~~
retrieving packets of data from another queue associated to a relatively lower predetermined
priority.

3.   (currently amended): The telecommunication router according to claim 1,
~~characterized in that~~ wherein said packet classifier ~~(CL)~~ is adapted to estimate said
predetermined priority by analyzing the content of a packet and to forward the analyzed packet
to the queue corresponding to the estimated priority.

4.   (canceled).

5.   (currently amended): The telecommunication router according to claim 1 ~~claim 4~~,
~~characterized in that~~ wherein each queue of said plurality of queues ~~(P0-P3)~~ may have a different
predetermined threshold filling level ~~(T0-T3)~~.

6.   (currently amended): The telecommunication router according to claim 1,
~~characterized in that~~ wherein said processor ~~(PROC)~~ is adapted to retrieve packets of data from
said queues according to the load of said processor.

7.   (currently amended): The telecommunication router according to claim 1, ~~characterized in that~~ wherein a plurality of termination links ~~(TL)~~ are connected to said packet classifier ~~(CL)~~.

8.   (currently amended): The telecommunication router according to claim 1, ~~characterized in that~~ wherein a plurality of processors ~~(PROC)~~ are adapted to retrieve packets of data from said queues.

9.   (currently amended): The telecommunication router according to claim 1, ~~characterized in that~~ wherein said packet classifier ~~(CL)~~ is adapted to forward to an output port ~~(OUT)~~ of said telecommunication router ~~(TLK, RTS)~~ packets that are not intended to said processor ~~(PROC)~~.